

WHAT IS CLAIMED IS:

1. A refrigerant cycle apparatus constituted by sequentially connecting a compressor, a gas cooler, throttling means and an evaporator, comprising:

5 an auxiliary cooling circuit which once releases heat from a refrigerant discharged from the compressor and then returns the refrigerant to the compressor, and a fan which ventilates the auxiliary cooling circuit and the gas cooler,

10 wherein the auxiliary cooling circuit has substantially the same ventilation area as that of the gas cooler.

2. The refrigerant cycle apparatus according to claim 1, wherein the gas cooler is arranged on the upstream side of the auxiliary cooling circuit with respect to ventilation by the fan.

3. The refrigerant cycle apparatus according to claim 1, wherein the compressor includes first and second compression elements, and the refrigerant compressed by the first compression element and discharged is sucked into the second compression element through the auxiliary cooling circuit, compressed and discharged to the gas cooler, and

25 the auxiliary cooling circuit is arranged on the upstream side of the gas cooler with respect to ventilation by the fan.

4. The refrigerant cycle apparatus according to
claim 1, claim 2 or claim 3, wherein the auxiliary cooling
circuit and the gas cooler are constituted of micro-tube
5 heat exchangers.